

## CURRICULUM VITAE

**Name:** Clarice Ring Weinberg

### **Education:**

1972 - B.S. (Mathematics) Simmons College, Boston, Massachusetts

1974 - M.A. (Mathematics) Brandeis University, Waltham, Massachusetts

1980 - Ph.D. (Biomathematics) University of Washington, Seattle, Washington

### **Brief Chronology of Employment:**

1972 - 1974	Teaching Assistant, Brandeis University, Waltham, Massachusetts
1976 - 1976	Consultant for the Children's Hospital Medical Center through Harvard School of Public Health, Boston, Massachusetts
1979 - 1983	Consultant for the Division of Gastroenterology, University Hospital, Seattle, Washington
1980 - 1983	Acting Assistant Professor, Department of Biostatistics, University of Washington, Seattle, Washington
1980 - 1983	Acting Director, Biostatistics Core, Diabetes/Endocrinology Research Center, University of Washington, Seattle, Washington
1983 - 1996	Mathematical Statistician, Biostatistics Branch, Environmental Diseases and Medicine Program, National Institute of Environmental Health Sciences, Research Triangle Park, North Carolina
1997 - present	Chief, Biostatistics Branch, Environmental Diseases and Medicine Program, National Institute of Environmental Health Sciences, Research Triangle Park, North Carolina
1989 - present	Adjunct Professor, Department of Biostatistics, University of North Carolina at Chapel Hill
1998 - present	Adjunct Professor, Department of Epidemiology, University of North Carolina at Chapel Hill
2000 – present	Research Committee for the Health Effects Institute, Boston, MA.

### **Honors and Awards:**

NIH Traineeship, 1976-1980

First Prize, Biometrics Society/WNAR Student Paper Competition, 1980,  
Faculty, Epidemiology Student Workshop, SER, 1990

SER Abraham Lillienfeld Student Paper Award, First Place, 1992 (with A. Rowland, D. Baird, D. Shore, C.M. Shy and A.J. Wilcox)

Fellow, American Statistical Association, 1995 - present  
NIH Merit Award, 1996  
SER Abraham Lillienfeld Student Paper Award, First Place, 1997 (with B. Rockhill and B. Newman)  
1998 Bernard G. Greenberg Distinguished Lectureship, Department of Biostatistics, University of North Carolina, May, 1998.  
SER faculty member, June 1998.

Primary advisor for Elaine Borland Hoffman: "A resampling approach to analysis of dependent binary data," Department of Biostatistics, University of North Carolina at Chapel Hill, 1998. Winner of both the Margolin Award for Best Dissertation in the Department of Biostatistics and the Greenberg Dissertation Award for Best Dissertation in the School of Public Health at UNC

### **Professional Activities:**

Member, American Statistical Association, Biometrics Society, Society for Epidemiologic Research  
Member, Editorial Board, Epidemiology  
Member, Editorial Review Board, Environmental Health Perspectives  
Member, the Committee to Study the Mortality of Military Personnel Present at Atmospheric Tests of Nuclear Weapons, under the Institute of Medicine, National Academy of Sciences, 1993-1999.  
Member, Subcommittee on Methods  
Member, Working Group on Dosimetry  
Project Officer, Contract N01-ES-95282, National Academy of Sciences, NRC Committee on Health Effects of Ionizing Radiation Among Nuclear Utility Workers, 1989-1991  
Member, ASA Steering Committee for the ASA Conference on Radiation and Health, June, 1994  
Member, Steering Committee for Pooled Analysis of North American Case-control Studies of Residential Radon and Lung Cancer, 1995 - 2004.  
Member, Scientific Advisory Board overseeing the study "Endometriosis and dioxin exposure in females of Seveso," 1995 - 1998  
Member, ASA Steering Committee for the ASA Conference on Radiation and Health, June, 1996.  
Member, Committee to Study the Mortality of Military Personnel Present at Atmospheric Tests of Nuclear Weapons, Institute of Medicine, 1995-2000.  
Member, Health Effects Institute Cohort Reanalysis Expert Panel, for oversight of the re-analysis of the Six Cities Study and the ACS study on effects of chronic exposure to air pollution on mortality, 1997-2000.  
Member, Health Effects Institute Research Committee, 2000 - present.  
Member, NIEHS Committee on Promotions II, 1996-1997.  
Chair, NIEHS Committee on Promotions II, 2001 - present.

Member, NIEHS Committee on Promotions I, 1997-2001.  
Member, NIEHS Workplace Assessment Committee, 1998-1999.  
Member, NIEHS Clinical Advisory Council, 1998-present  
Reviewer, U.S. EPA Particulate Matter Air Quality Criteria Document, spring, 1999.  
Member, NIEHS Computer Information Officer Advisory Committee, 2000 - present.  
Chair, NIEHS Search Committee for a tenure-track neuro-epidemiologist, 2000-2001.  
Statistical Editor, American Journal of Epidemiology, 1999 – 2002  
Associate Editor, American Journal of Epidemiology, 2003 – present.  
Co-organizer, winter meeting of the Piedmont Genetic Epidemiology Society, February 25, 2000, at NIEHS  
Member, committee to Review the Dose Reconstruction Program of the Defense Threat Reduction Agency, Board on Radiation Effects Research, the National Academies, 2001 - present.  
Round table discussion leader, "Designing studies to detect environmental interactions with low penetrance genes," ENAR, March, 2000.

Member, Executive Committee, NIEHS, 2002-present.  
Member, Selection Committee for the 2000 Mortimer Spiegelman Award, honoring a statistician under the age of 40 who has made important contributions to public health (sponsored by the American Public Health Association).  
Member, Selection Committee for the 2001 Mortimer Spiegelman Award, honoring a statistician under the age of 40 who has made important contributions to public health (sponsored by the American Public Health Association).  
Affiliate Member, Biostatistics and Epidemiologic Methods Facility Core (BEMFC) of the Center for Environmental Health and Susceptibility, School of Public Health, University of North Carolina at Chapel Hill, 2000 - present.  
Member, Science Council for Radiation Effects Research Foundation, Hiroshima, Japan, for the Board on Radiation Effects Research, National Academies, 2001-present.  
Member, Selection Committee for the Nathan Mantel Award for Lifetime Achievement in Statistics in Epidemiology, 2002.  
Chair, NIEHS Search Committee for Chief, Laboratory of Computational Biology and Risk Analysis, 2002-present.  
Member, Program Committee for the Eastern North American Regional statistical meeting 2005.  
Member, Committee on Sampling for the National Children's Study, 2004-present.

PhD. Thesis committees:

Paige Hornsby: "The Effects of *in Utero* Exposure to Diethylstilbestrol (DES) on the Menstrual Cycle" Department of Epidemiology, University of North Carolina at Chapel Hill, 1991.

Pam Schwingl: "Lack of Effect of Prenatal Exposure to Cigarette Smoking on Adult Fecundability" Department of Epidemiology, University of North Carolina at Chapel Hill, 1992.

Glinda Cooper: "Genetic Susceptibility and Dietary Factors in Ovarian Dysfunction: Galactose Consumption, Metabolism, and Gonadotropin Levels in Women of Late Reproductive Age" Department of Epidemiology, University of North Carolina at Chapel Hill, 1993.

Tye Arbuckle: "Reproductive Outcomes Among Women Living on Ontario Farms in Relation to Pesticide Exposure: a Feasibility Study" completed at the Department of Epidemiology, University of North Carolina at Chapel Hill, 1995.

Kristi Tolo: "Alcohol Consumption and Reproductive Outcomes." completed at the Department of Epidemiology, University of North Carolina at Chapel Hill, 1995.

Kathryn Curtis: "Determinants of Time-to-Pregnancy in the Ontario Farm Family Health Study" Department of Epidemiology, University of North Carolina at Chapel Hill, 1996.

Esther Janowski: "Vitamin D/vitamin D metabolism and risk of breast cancer" completed at the Department of Epidemiology, University of North Carolina at Chapel Hill, 1997.

Beverly Rockhill: "Attributable fraction estimation for breast cancer risk Factors," Department of Epidemiology, University of North Carolina at Chapel Hill, 1997.

Emily DeVoto: "Chlorinated hydrocarbons and breast cancer," Department of Epidemiology, University of North Carolina at Chapel Hill, 1998.

Elaine Borland Hoffman: "A resampling approach to analysis of dependent binary data," Department of Biostatistics, University of North Carolina at Chapel Hill, 1998 (primary advisor). Winner of both the Margolin Award for Best Dissertation in the Department of Biostatistics and the Greenberg Dissertation Award for Best Dissertation in the School of Public Health at UNC

Jane Schroeder: "Epidemiology of t(14;18) Non-Hodgkin's Lymphoma," Department of Epidemiology, University of North Carolina at Chapel Hill, 1999.

Randall Rieger: "Paired within-cluster resampling for estimating subject-specific effects." Department of Biostatistics, University of North Carolina at Chapel Hill, 2000. (primary advisor)

Penelope Howards "Strategies for avoiding bias in studies of causes of spontaneous abortion" Department of Epidemiology, University of North Carolina at Chapel Hill, 2001 – present

Michael Klotsman "Genetic factors in benign prostatic hyperplasia" Department of Epidemiology, University of North Carolina at Chapel Hill, 2002 - 2003.

Emily Kistner "Using nuclear families to study genetic contributions to quantitative traits" Department of Biostatistics, University of North Carolina and Chapel Hill, 2002 - present. (primary advisor)

Evadnie Rampersaud "Using family data to study complex disease: the example of neural tube defects" Department of Human Genetics, Duke University, 2002 - present.

George Capuano "Topics in joint modeling of HRQoL and nonignorable dropout: Department of Biostatistics, University of North Carolina at Chapel Hill, 2003 – present.

Gillian S. Backus-Hazzard. "Genetic determinants of ozone-induced immune dysfunction and allergen response." Curriculum in Toxicology, University of North Carolina at Chapel Hill, 2003 – present.

### **Publications in Peer-Reviewed Journals:**

1. Biesbroeck, R., Albers, J.J., Wahl, P., Weinberg, C., Bassett, M., and Bierman, E. Abnormal composition of high density lipoproteins in non-insulin dependent diabetics. Diabetes **31**:126-131, 1982.
2. Wacholder, S. and Weinberg, C. Paired versus two-sample design for a clinical trial of treatments with dichotomous outcome: power considerations. Biometrics **38**:801-812, 1982.
3. Beard, J., Weinberg, C., Pfeifer, M., Best, J., Halter, J., and Porte, D. Jr. Interaction of glucose and epinephrine in the regulation of insulin secretion. Diabetes **31**:802-807, 1982.
4. Beard, J., Weinberg, C., Pfeifer, M., Best, J., Halter, J., and Porte, D. Jr. Modulation of arginine-induced glucagon release by epinephrine and glucose

- levels in man. Journal of Clinical Endocrinology and Metabolism **56**:1271-1277, 1983.
5. Judzewitsch, R., Polonsky, K.S., Jaspan, J.B., Weinberg, C.R., Pfeifer, M.A., Halter, J.B., Halar, E., Vukadinovic, C., Liang, K.Y., Gabbay, K., Rubenstein, A.H., and Porte, D. Jr. Aldose reductase inhibition improves nerve conduction velocity in diabetic patients. New England Journal of Medicine **308**:119-125, 1983.
  6. Pfeifer, M., Weinberg, C., Cook, D., Best, J., Reenan, A., and Halter, J. Differential changes of autonomic nervous system function with age in man. American Journal of Medicine **75**(2):249-258, 1983.
  7. Fujimoto, W., Hershon, K., Kinyoun, J., Stolov, W., Weinberg, C., Ishiwata, K., Kajinuma, H., Kanazawa, Y., and Kuzvya, N. Type II diabetes mellitus in Seattle and Tokyo. Tohoku Journal of Experimental Medicine **141**(suppl.):133-139, 1983.
  8. Gilbert, D., Surawicz, C., Silverstein, F., Weinberg, C., Saunders, D., Feld, A., Sanford, R., Bergman, D., and Washington, P. Prevention of acute aspirin-induced gastric mucosal injury by 15-R-15 methyl prostaglandin E: an endoscopic study. Gastroenterology **86**:339-345, 1984.
  9. Weinberg, C. and Pfeifer, M. An improved method for measuring heart-rate variability: assessment of cardiac autonomic function. Biometrics **40**:855-861, 1984.
  10. Weinberg, C., Dornan, T., Hansen, J., Raghu, P., and Palmer, J. HLA-related heterogeneity in seasonal patterns of diagnosis in Type I (insulin-dependent) diabetes. Diabetologia **26**:199-202, 1984.
  11. Pfeifer, M.A., Weinberg, C.R., Cook, D., Reenan, A., Halter, J.B., Ensink, J. and Porte, D. Jr. Autonomic neural dysfunction in recently diagnosed diabetic subjects. Diabetes Care **7**:447-453, 1984.
  12. Weinberg, C.R. On pooling across strata when frequency matching has been followed in a cohort study. Biometrics **41**:117-127, 1985.
  13. Pfeifer, M., Weinberg, C., Cook, D., Reenan, A., Halar, E., Halter, J., LaCava, E. and Porte D. Jr. Correlations among autonomic, sensory, and motor neural function tests in untreated noninsulin dependent diabetics. Diabetes Care **8**:576-584, 1985.
  14. Wilcox, A., Weinberg, C., Wehmann, R., Armstrong, G., Canfield, R., and Nisula, B. Measuring early pregnancy loss: laboratory and field methods. Fertility and Sterility **44**:366-374, 1985.

15. Wacholder, S. and Weinberg, C.R. Selecting subpopulations for intervention. Journal of Chronic Disease **39**:513-519, 1986.
16. Weinberg, C.R. Applicability of the simple independent action model to epidemiologic studies involving two factors and a dichotomous outcome. American Journal of Epidemiology **123**:162-173, 1986.
17. Weinberg, C.R. and Pfeifer, M.A. Development of a predictive model for symptomatic neuropathy in diabetes. Diabetes **35**:873-880, 1986.
18. Piegorsch, W., Weinberg, C., and Haseman, J. Testing for simple independent action between two factors for dichotomous response data. Biometrics **42**:413-419, 1986.
19. Weinberg, C.R. and Gladen, B. The beta-geometric distribution applied to comparative fecundability studies. Biometrics **42**:547-560, 1986.
20. Everson, R.B., Sandler, D.P., Wilcox, A.J., Schreinemachers, D., Shore, D.L., Weinberg, C. Effect of passive exposure to smoking on age at natural menopause. British Medical Journal **293**:792, 1986.
21. Baird, D.D., Wilcox, A.J., and Weinberg, C.R. Use of time to pregnancy to study environmental exposures. American Journal of Epidemiology **124**:470-480, 1986.
22. Piegorsch, W.W. and Weinberg, C.R. Testing synergistic effects for simultaneous exposures with stratified dichotomous response. Journal of Statistical Computation and Simulation **26**:1-19, 1986.
23. Rothschild, A.H., Weinberg, C.R., Cook, D., Halter, J., Porte, D. Jr. and Pfeifer, M.A. Sensitivity of RR-variation and the Valsalva ratio in the assessment of diabetic autonomic neuropathy. Diabetes Care **10**(6):735-741, 1987.
24. Wilcox, A.J., Weinberg, C.R., Armstrong, E.G., and Canfield, R.E. Urinary human chorionic gonadotropin among intrauterine device users: detection with a highly specific and sensitive assay. Fertility and Sterility **47**:265-269, 1987.
25. Weinberg, C.R., Brown, K. and Hoel, D. Altitude, radiation and mortality from heart disease and cancer. Radiation Research **112**:381-390, 1987.
26. Wilcox, A.J., Baird, D.D., Weinberg, C.R., Armstrong, E.G., Musey, P., Wehmann, R., and Canfield, R. The use of biochemical assays in epidemiologic studies of reproduction. Environmental Health Perspectives **75**:29-35, 1987.

27. Piegorsch, W.W., Weinberg, C.R., and Margolin, B.H. Exploring simple independent action in multifactor tables of proportions. Biometrics **44**:595-603, 1988.
28. Peterson, H.R., Rothschild, M., Weinberg, C.R., Fell, R.D., Noleish, K.,R., and Pfeifer, M.A. Body fat and the activity of the autonomic nervous system. New England Journal of Medicine **318**(17):1077-1083, 1988.
29. Wilcox, A.J., Weinberg, C.R., O'Connor, J.F., Baird, D.D., Schlatterer, J.P., Canfield, R.E., Armstrong, E.G., and Nisula, B.C. Incidence of early pregnancy loss. New England Journal of Medicine **319** (4):189-194, 1988.
30. Wilcox, A.J., Weinberg, C.R. and Baird, D.D. Caffeinated beverages and decreased fertility. The Lancet, Dec 24/31:1453-6, 1988.
31. Wilcox, A.J., Baird, D.D., and Weinberg, C.R. Do women with childhood exposure to cigarette smoking have increased fecundability? American Journal of Epidemiology **129**:1079-83, 1989.
32. Weinberg, C.R., Wilcox, A.J., and Baird, D.D. Reduced fecundability in women with prenatal exposure to cigarette smoking. American Journal of Epidemiology **129**:1072-8, 1989.
33. Wallenstein, S. ,Weinberg, C.R. and Gould, M. Testing for a pulse in seasonal event data. Biometrics, **45**(3):817-830, 1989.
34. Sandler, D.P., Smith, J.C., Weinberg, C.R., Buckalew, V.M., Dennis, V.W., Blythe, W.B., and Burgess, W.P. Analgesic use and chronic renal disease. New England Journal of Medicine. **320**:1238-43, 1989
35. Weinberg, C.R. and Wacholder, S. The design and analysis of case-control studies with biased sampling. Biometrics **46**(4):963-75,1990.
36. Whelan, E.A., Sandler, D.P., McConnaughey, D.R. and Weinberg, C.R. Menstrual and reproductive characteristics and age at natural menopause. American Journal of Epidemiology, **131**(4):625-32,1990.
37. Wilcox, A.J., Weinberg, C.R. and Baird, D.D. Risk factors for early pregnancy loss. Epidemiology. **1**(5):382-5,1990.
38. Weinberg, C.R. Infertility and the use of illicit drugs. invited editorial, Epidemiology **1**(3):189-92,1990.
39. Lubin, J.H., Samet, J.M. and Weinberg, C.R. Design issues in epidemiologic studies of domestic exposure to radon and risk of lung cancer. Health Physics **59**(6):807-17,1990.



40. Baird, D.D., Weinberg, C.R., Wilcox, A.J., McConnaughey, D.R., Musey, P.I., Collins, D.C. Hormonal profiles of natural conception cycles ending in early, unrecognized pregnancy loss. J. Clin. Endocrin. and Metab **72**(4):793-800, 1991.
41. Baird, D.D., Weinberg, C.R., Wilcox, A.J., McConnaughey, D.R., and Musey, P.I. Using the ratio of urinary oestrogen and progesterone metabolites to estimate day of ovulation. Statistics in Medicine **10**:255-66, 1991.
42. Baird, D.D., Weinberg, C.R. and Rowland, A.S. Reporting errors in time-to-pregnancy data collected with a short questionnaire: impact on power and estimation of fecundability ratios. American Journal of Epidemiology **133**(12):1282-90, 1991.
43. Weinberg, C.R. and Sandler, D.P. Randomized recruitment in case-control studies. American Journal of Epidemiology **134**(4):421-32, 1991.
44. Sandler, D.P., Burr, F.R., and Weinberg, C.R. Non-aspirin nonsteroidal anti-inflammatory drugs and risk of chronic renal disease. Annals of Internal Medicine **115**(3):165-72, 1991.
45. Weinberg, C.R., Hertz-Picciotto, I., Baird, D.D. and Wilcox, A.J. Efficiency and bias in studies of early pregnancy loss. Epidemiology **3**(1): 17-22, 1992.
46. Rowland, A., Baird, D.D., Weinberg, C.R., Shore, D.L., Shy, C.M. and Wilcox, A.J. Reduced fertility among women employed as dental assistants exposed to high levels of nitrous oxide. New England Journal of Medicine **327**:993-997, 1992.
47. Johnson, E.S., Parsons, W., Weinberg, C., Shore, D., Mathews, J., Patterson, D.G., and Needham, L.L. Current serum levels of 2,3,7,8-tetrachlorodibenzo-p-dioxins (2,3,7,8-TCDD) in phenoxy-herbicides applicators and characterization of historical levels. Journal of the National Cancer Institute, **84**:1648-53, 1992.
48. Weinberg, C.R., Baird, D.D., and Rowland, A. Pitfalls inherent in retrospective time-to-event data: the example of time to pregnancy. Statistics in Medicine, **12**(9):867-79, 1993.
49. Weinberg, C.R. Toward a clearer definition of confounding. American Journal of Epidemiology, **137**(1):1-8, 1993.
50. Weinberg, C.R. and Wacholder, S. Prospective analysis of case-control data under general multiplicative-intercept risk models. Biometrika, **80**(2): 461-465, 1993.

51. Little, R.E. and Weinberg, C.R. Risk factors for antepartum and intrapartum stillbirth. American Journal of Epidemiology , **137**(11):1177-1189, 1993.
52. Wacholder, S. and Weinberg, C.R. Flexible maximum likelihood methods for assessing joint effects in case-control studies with complex sampling. Biometrics, **50**(2): 350-357, 1994.
53. Weinberg, C.R., Gladen, B., and Wilcox, A.J. Models relating the timing of intercourse to the probability of conception and the sex of the baby. Biometrics, **50**(2): 358-367, 1994.
54. Rowland, A., Baird, D.D., Weinberg, C.R., Shore, D.L., Shy, C.M., Wilcox, A.J. The effect of occupational exposure to mercury vapor on the fertility of female dental assistants. Occupational and Environmental Medicine, **51**: 28-34, 1994.
55. Piegorsch, W.W., Weinberg, C.R., and Taylor, J.A. Non-hierarchical logistic models and case-only designs for assessing susceptibility in population-based case-control studies. Statistics in Medicine, **13**: 153-62, 1994.
56. Weinberg, C.R., Baird, D.D., and Wilcox, A.J. Sources of bias in studies of time to pregnancy. Statistics in Medicine, **13**: 671-681, 1994.
57. Hornsby, P.P., Wilcox, A.J., Weinberg, C.R., and Herbst, A.L. Effects on the menstrual cycle of *in utero* exposure to diethylstilbestrol. American Journal of Obstetrics and Gynecology, **170**: 709-715, 1994.
58. Whelan, E.A., Sandler, D.P., Root, J.L., Smith, K.R., and Weinberg, C.R. Menstrual cycle patterns and risk of breast cancer. American Journal of Epidemiology, **140**(12): 1081-1090, 1994.
59. Weinberg, C.R., Moledor, E., Wilcox, A.J., and Baird, D.D. Is there a seasonal pattern in risk of early pregnancy loss? Epidemiology, **5**(5): 484-489, 1994.
60. Cooper, G.S., Baird, D.D., Savitz, D.A., Hughes, C.L., Weinberg, C.R., Coleman, R.A., Shields, J.M., Hulka, B.S. Galactose consumption, metabolism and gonadotropin levels in women of late reproductive age. Fertility and Sterility, **62**:1168-1175, 1994.
61. Weinberg, C.R., Umbach, D.M. and Greenland, S. When will nondifferential misclassification of an exposure preserve the direction of a trend? American Journal of Epidemiology, **140**(6):565-571, 1994.
62. Alavanja, M.C.R., Akland, G., Baird, D., Blair, A., Bond, A., Dosemeci, M., Kamel, F., Lewis, R., Lubin, J., Lynch, C., McMaster, S.B., Moore, M., Pennybacker, M., Ritz, L., Rothman, N., Rowland, A., Sandler, D.P., Sinha, R., Swanson, C., Tarone, R., Weinberg, C., Zahm, S.H. Cancer and noncancer risk to

- women in agriculture and pest control: the agricultural health study. Journal of Occupational Medicine 36: 1247-1250, 1994.
63. Rowland, A., Baird, D.D., Shore, D.L., Weinberg, C.R., Savitz, D., and Wilcox, A.J. Nitrous oxide and spontaneous abortion in female dental assistants. American Journal of Epidemiology, **141**(6): 531-38, 1995.
  64. Weinberg, C.R., Baird, D.D., and Wilcox, A.J. The sex of the baby may be related to the length of the follicular phase of the conception cycle. Human Reproduction, **10**(2):304-307, 1995.
  65. Weinberg, C.R. and Wilcox, A.J. A model for estimating the potency and survival of human gametes *in vivo*. Biometrics, **51**: 405-412, 1995.
  66. Baird, D.D., McConaughy, D.R., Weinberg, C.R., Musey, P.I., Collins, D.C., Kesner, J.S., Knecht, E.A., and Wilcox, A.J. Application of a method for estimating day of ovulation using urinary estrogen and progesterone metabolites. Epidemiology, **6**(5): 547-550, 1995.
  67. Cooper, G.S., Baird, D.D., Hulka, B.S., Weinberg, C.R., Savitz, D.A., Hughes, C.L. FSH concentrations in relation to active and passive smoking. Obstet. and Gynecol, **85**(3):407-11, 1995.
  68. Wilcox, A.J., Baird, D.D., Weinberg, C.R., Hornsby, P.P., and Herbst, A.L. Fertility of men who were prenatally exposed to diethylstilbestrol (DES) in a randomized clinical trial. New England Journal of Medicine, **332**: 1411-6, 1995.
  69. Weinberg, C.R. How bad is categorization? invited editorial. Epidemiology, **6**(4):345-347, 1995.
  70. Baird, D.D., Umbach, D., Lansdell, L., Hughes, C., Setchell, K., Weinberg, C.R. Haney, A.F., Wilcox, A.J., McLachlan, J.A. Dietary intervention study to assess estrogenicity of dietary soy among postmenopausal women. J Clin Endocrin and Metab, **80**: 1685-90, 1995.
  71. Wilcox, A.J., Weinberg, C.R., and Baird, D.D. Timing of sexual intercourse in relation to ovulation - Effects on the probability of conception, survival of the pregnancy, and sex of the baby. New England Journal of Medicine, **333**(23): 1517-1521, 1995.
  72. Weinberg, C.R. Potential for bias in epidemiologic studies that rely on glass-based retrospective assessment of radon. Environmental Health Perspectives, **103**:1042-1046, 1995.
  73. Baird, D.D., Weinberg, C.R., Voigt, L.F. and Daling, J.R. Vaginal douching and reduced fertility, American Journal of Public Health , **86**:844-850, 1996.

74. Zhou, H. and Weinberg, C.R. Modeling conception as an aggregated Bernoulli outcome with latent variables, via the EM algorithm. Biometrics, **52**: 945-954, 1996.
75. Weinberg, C.R., Skjaerven, R. and Wilcox, A.J. Statistical evidence for shared transient causes of anatomically distinct birth defects. Statistics in Medicine, **15**: 2029-2036, 1996.
76. Zhou, H., Weinberg, C.R., Wilcox, A.J. and Baird, D.D. A random effects model for cycle viability in fertility studies. Journal of the American Statistical Association **91**:1413-1422, 1996.
77. Weinberg, C.R., Moledor, E.S., Umbach, D.M. and Sandler, D.P. Imputation for exposure histories with gaps, under an excess relative risk model. Epidemiology, **7**(5): 490-497, 1996.
78. Umbach, D. and Weinberg, C.R. Designing and analyzing case-control studies to exploit independence of genotype and exposure. Statistics in Medicine, **16**(15): 1731-43, 1997.
79. Baird, D.D., Wilcox, A.J., Weinberg, C.R., Kamel, F., McConnaughey, D.R., Musey, P.I., and Collins, D.C. Preimplantation hormonal differences between the conception and nonconception menstrual cycles of 32 normal women. Human Reproduction, **12**(12): 2607-13, 1997.
80. Weinberg, C.R. and Zhou, H. Model-based approaches to studying fertility and contraceptive efficacy. Advances in Contraception, **13**(2-3): 97-103, 1997.
81. Rockhill, B., Newman, B., and Weinberg, C.R. Use and misuse of population attributable fractions. American Journal of Public Health, **88**(1): 15-19, 1998.
82. Hornsby, P.P., Wilcox, A.J., Weinberg, C.R. Cigarette smoking and disturbance of menstrual function. Epidemiology **9**(2): 193-198, 1998.
83. Wilcox, A.J., Weinberg, C.R., and Baird, D.D. Post-ovulatory ageing of the human ovum and embryo failure. Human Reproduction **13**(2): 394-7, 1998.
84. Zhou, H. and Weinberg, C.R. Evaluating effects of exposures on embryo viability and uterine receptivity in *in vitro* fertilization. Statistics in Medicine **17**:1601-1612, 1998.
85. Rockhill, B., Weinberg, C.R. and Newman, B. Population attributable fraction estimation for established breast cancer risk factors: considering the issues of high prevalence and unmodifiability. American Journal of Epidemiology, **147**(9): 826-833, 1998.

86. Weinberg, C.R., Wilcox, A.J. and Lie, R.T. A log-linear approach to case-parent triad data: Assessing effects of disease genes that act directly or through maternal effects, and may be subject to parental imprinting. American Journal of Human Genetics **62**(4): 969-978, 1998.
87. Wilcox, A.J., Weinberg, C.R. and Lie, R.T. Distinguishing the effects of maternal and offspring genes through studies of 'case-parent triads.' American Journal of Epidemiology **148**(9): 893-901, 1998.
88. Zhou, H. and Weinberg, C.R. A semi-parametric mixture model in fertility studies. Journal of Statistical Planning and Inference **75**: 453-462, 1999.
89. Curtis, K.M, Savitz, D.A., Weinberg, C.R. and Arbuckle, T.E. The effect of pesticide exposure on time to pregnancy. Epidemiology **10**(2): 112-117, 1999.
90. Zhou, H. and Weinberg, C.R. Potential for bias in estimating human fecundability parameters: a comparison of statistical models. Statistics in Medicine **18**(4):411-422, 1999.
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### **Publications in Proceedings and Book Chapters:**

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#### **Recent letters:**

1. Weinberg, C.R., Umbach, D.M., and Greenland, S. Response to comments of Thomas, and comments of Birkett RE "When will nondifferential misclassification of an exposure preserve the direction of a trend?" letter, Am J Epidemiol, **142**(7): 784, 1995.
2. Weinberg, C.R. "Should we adjust for pregnancy history when the exposure effect is transient?" letter, Epidemiology, **6**(3):335-337, 1995.
3. Whelan, E.A., Sandler, D.P. and Weinberg, C.R. RE: "Menstrual cycle patterns and risk of breast cancer" letter, American Journal of Epidemiology, **141**(12):1201, 1995.

4. Weinberg, C.R., Baird, D.D., and Wilcox, A.J. RE: the effects of caffeine consumption on delayed conception. letter, the American Journal of Epidemiology, **144**(6):799, 1996.
5. Rockhill, B. and Weinberg, C.R. On calculation of population attributable risk; RE "Poverty and death in the United States - 1973 and 1991." letter, Epidemiology, **7**(4):453-4, 1996.
6. Wilcox, A.J., Weinberg, C.R., and Baird, D.D. "Pregnancy and the timing of intercourse" letter, New England Journal of Medicine, **334**(19): 1267-1268, 1996.
7. Zhou, H. and Weinberg, C.R. RE: Smoking reduced fecundity: A European multicenter study on infertility and subfecundity" letter, American Journal of Epidemiology, **145**(1): 81, 1997.
8. Weinberg, C.R., Baird, D.D. and Wilcox, A.J. "RE: Follicular phase length, time of insemination, mean cycle length, season of mother's birth, and sex ratio of offspring. letter, Human Reproduction, **12**: 398-99, 1997.
9. Weinberg, C.R. and Wilcox, A.J. RE: Studies based on genotyping cases and their parents. American Journal of Epidemiology **150**(4):428-9, 1999.
10. Weinberg, C.R. RE: Asymptotic bias and efficiency in case-control studies of candidate genes and gene-environment interactions: basic family designs. by Witte, Gauderman, and Thomas, **152**: 689-91, American Journal of Epidemiology, 2000.
11. Weinberg, C.R. and Mitchell, L. RE Labuda, D., M. Krajinovic, A. Sabbagh, C. Infante-Rivard and D. Sinnett (2002). "Parental genotypes in the risk of a complex disease." American Journal of Human Genetics **71**(5): 1239-40, 2002.
12. Wilcox, A.J., Weinberg, C.R. and Baird, D.D. Correction regarding probability of conception. New England Journal of Medicine,
13. Weinberg, C.R. RE: Arsenic and drinking water. Epidemiology **12**(2): 255, 2004.

#### **Recent and scheduled invited talks:**

1. Weinberg, C.R. "Sex and the single ovum: the timing of intercourse in relation to the probability of conception." Seminar sponsored by the Department of Biostatistics, University of North Carolina at Chapel Hill, January 13, 1995.

2. Weinberg, C.R. "Models relating conception to the timing of intercourse and other factors." presented at the Dipartimento di Scienze Statistiche, Universita di Padova, Padua, Italy, May 25, 1995.
3. Weinberg, C.R. "Sex and the single ovum: models for human fertility." Symposium in celebration of the 25th Anniversary of the School of Public Health, Department of Biostatistics, University of Washington, Seattle, Washington, September, 1995.
4. Weinberg, C.R. "Assessing gene by environment interaction in case-control studies." Department of Biostatistics, Harvard School of Public Health, October 30, 1995.
5. Weinberg, C.R. "Design and analysis of case-control studies using randomized recruitment." Department of Epidemiology, Harvard School of Public Health, October 31, 1995.
6. Weinberg, C.R. "Exposures and outcomes of *in vitro* fertilization." Conference for Clinical Fellows, NIEHS, January 24, 1996.
7. Weinberg, C.R. "Assessing gene by environment interaction in case-control studies." Invited Lecture for the Cancer Epidemiology course, Department of Epidemiology, University of North Carolina at Chapel Hill, February 22, 1996.
8. Weinberg, C.R. Sandler, D.P., Umbach, D.M., Moledor, E., Lyon, J.L., Bishop, M., Archer, A., Stolwijk, J., Rothney-Kozlak, L., Noss, J.. "Progress report: the Connecticut/Utah/Idaho study of lung cancer and indoor radon." invited talk at the ASA Conference on Radiation and Health, Vail, Colorado, June, 1996.
9. Weinberg, C.R., "Comments on the application of measurement error models in the real world." invited discussant, the ASA Conference on Radiation and Health, Vail, Colorado, June, 1996.
10. Weinberg, C.R. and Zhou, H. "Statistical models for human fertility." invited Bohn Lecture at the Twenty-fourth Annual Miami University Mathematics and Statistics Conference, September, 1996.
11. Weinberg, C.R. "Confounding and causal pathways" invited lecture for Epidemiology 268, University of North Carolina at Chapel Hill, March 17, 1997.
12. Weinberg, C.R. and Zhou, H. "Model-based approaches to studying fertility and contraceptive efficacy." invited talk at the Institute for Reproductive Health, Georgetown University, Washington, D.C. April 3, 1997.

13. Weinberg, C.R. "Innovative designs and analysis for studying gene-environment interactions." invited lecture for Cancer Epidemiology, Department of Epidemiology, University of North Carolina at Chapel Hill, April 10, 1997.
14. Weinberg, C.R. "Imputation for exposure histories with gaps." the National Cancer Institute, April 11, 1997.
15. Weinberg, C.R. "Sex and the single ovum: new approaches to modeling human fertility" Population Research Institute at Pennsylvania State University, University Park, PA, April 16, 1997.
16. Weinberg, C.R. "Innovative designs and analyses for studying gene-environment interactions." Memorial Sloane Kettering Cancer Institute, New York, May 16, 1997.
17. Weinberg, C.R. and Wilcox, A.J. "Case-only and case triad studies to assess genetic effects on risk, with application to studies of oral clefting" International Biometric Society, Nordic Regional Meeting, Ås, Norway, June 19, 1997.
18. Weinberg, C.R., Wilcox, A.J. and Lie, R.T. "What can we learn from genetic studies of cases and their parents?" Piedmont Genetic Epidemiology Society meeting, Chapel Hill, North Carolina, October 6, 1997.
19. Weinberg, C.R. "Case-only study designs for the study of gene-nutrient interactions" invited lecture for Epidemiology 268 (Diet and Cancer), University of North Carolina, February 3, 1998.
20. Weinberg, C.R., London, S., Sandler, D., Longnecker, M., and Taylor, J. "Using genetically-enriched cohorts to study gene-by-environment interaction: Is there power in sisterhood?" National Cancer Institute, Rockville Maryland, February 19, 1998.
21. Weinberg, C.R. "Methods to distinguish maternally-mediated and direct genetic effects" invited lecture for Genetic Epidemiology: Methods and Applications (Epidemiology 229) at University of North Carolina, March 17, 1998.
22. Weinberg, C.R. Bernard G. Greenberg Distinguished lectureship, May 11-15, 1998, Department of Biostatistics, University of North Carolina at Chapel Hill:
  23. Biased sampling for case-control studies: the case for randomized recruitment.
  24. Using pooled exposure assessment to improve efficiency in case-control studies.
  25. Sex and the single ovum: Progress in modeling human fertility.



26. What can we learn about genetic risk factors from studies of cases and their parents?
27. Within-cluster resampling: a new approach to analysis of dependent data.
28. Weinberg, C.R. and Umbach, D.M. Pooled exposure assessment: an efficient strategy for case-control studies that must rely on an expensive assay. Spotlight Session at the annual meeting of the Society for Epidemiologic Research, Chicago, Illinois, June, 1998.
29. Weinberg, C.R. Sex and the single ovum. Department of occupational medicine. Orebro University, Orebro, Sweden, August, 1998.
30. Weinberg, C.R. Within-cluster resampling for analysis of clustered data. Department of Statistics, Orebro University, Orebro, Sweden, August, 1998.
31. Weinberg, C.R., Wilcox, A.J. and Lie, R.T. Distinguishing the effects of maternal and offspring genes through studies of case-parent triads. NIH Birth Defects and Teratology Interest Group, September 17, 1998.
32. Weinberg, C.R. Distinguishing maternally-mediated and direct genetic effects. Genetic Epidemiology, University of North Carolina Epidemiology, March 25, 1999.
33. Weinberg, C.R. Some pitfalls in studying mortality in relation to chronic exposure to air pollution. Health Effects Institute annual meeting, La Jolla, CA, May 1999.
34. Weinberg, C.R. What can we learn from genetic studies of cases and their parents? Tulane University, November 3, 1999.
35. Weinberg, C.R. What can we learn from genetic studies of cases and their parents? Reproductive Epidemiology Seminar, UNC, November 12, 1999.
36. Weinberg, C.R. Case-only studies for gene-by-environment interaction. Lecture in Diet and Cancer Course, Epidemiology, University of North Carolina, February 3, 2000.
37. Weinberg, C.R. Designing studies to detect environmental interactions with low penetrance genes. Leader of Roundtable discussion, ENAR, Chicago, March, 2000.
38. Weinberg, C.R. Answerables and not-so-answerables in reanalyzing cohort studies of mortality in relation to chronic exposure to air pollution. Annual meeting of the Health Effects Institute, April, 2000.

39. Weinberg, C.R. The Future of Epidemiology, Panelist, Harvard University, May 4, 2000.
40. Weinberg, C.R. Fertility can be complicated. Discussant, Joint Statistical Meetings, session on modeling fertility, August, 2000, Indianapolis, IN.
41. Weinberg, C.R. Within-cluster resampling for analysis of dependent binary data. ASA Atlanta Chapter meeting featured speaker, December 2000.
42. Weinberg, C.R. Using pooled exposure assessment to improve efficiency in case-control studies. Centers for Disease Control seminar, December, 2000.
43. Weinberg, C.R. and Umbach, D. Designs for studying gene-gene and gene-by-environment interaction. Human Genome Epidemiology Workshop, Centers for Disease Control, January 29-30, 2001, Atlanta Georgia.
44. Weinberg, C.R. Are there remaining issues in relating health effects to spatial and temporal variation in PM air pollution? HEI Workshop on Accountability, Baltimore, MD. February 1, 2001.
45. Weinberg, C.R. Gene expression array data can reveal important disease subtypes. Presentation to NIEHS Council, February 12, 2001, Bethesda, MD.
46. Weinberg, C.R. Using case-parent triads to assess effects of an inherited candidate gene, maternally-mediated effects, and parent-of-origin effects. Center for Human Genetics, Duke University Medical Center, February 20, 2001.
47. Weinberg, C.R. The many contributions of Samuel Greenhouse to biostatistics. ENAR, Charlotte, NC, March, 2001.
48. Weinberg, C.R. Assessing confounding by means of directed acyclic graphs (DAGs). University of North Carolina, Epidemiology 369, Causal Inference Module, April 10 and 12, 2001.
49. Weinberg, C.R. Overlooked designs; missed opportunities. Methods Plenary Session for the 2001 Epidemiology Congress in Toronto, June, 2001.
50. Weinberg, C.R. Design issues and options in detection of GxE interaction. Invited speaker at the Workshop on "Design of case-control studies of gene-environment interaction" October 1-2, 2001, Oxford, England, sponsored by the Imperial Cancer Research Fund.
51. Weinberg, C.R. Using cases and their parents to evaluate the contribution of genetic variants to disease susceptibility. Johns Hopkins, March 6, 2002.

52. Weinberg, C.R. "Pooling specimens can improve the efficiency of case-control studies" in the Symposium on Biostatistical and Biomathematical Problems in Environmental Health, NIEHS, June 7, 2002.
53. Weinberg, C.R. "New and under-utilized tools". Keynote address at the retreat "Genomic approaches to the study of disease etiology" at the University of Pennsylvania School of Medicine, Philadelphia, PA, June 19-20, 2002.
54. Weinberg, C.R. Analysis of candidate genes for complex diseases. International Biometrics Conference, Freiburg, Germany, July 21-26, 2002.
55. Weinberg, C.R. Unusual designs in epidemiology. Workshop on statistical methods at the Congress on Epidemiology in Occupational Health, Barcelona, Spain, September 11-15, 2002.
56. Weinberg, C.R. What can we learn from cases and their parents about genetic contributions to risk and gene by environment interaction? University of Aarhus, Aarhus, Denmark, February 5, 2003.
57. Weinberg, C.R. Some approaches to studying gene-by-environment interaction, with suggested applications to the A-bomb cohorts. Radiation Effects Research Foundation, Hiroshima, Japan, March 12, 2003.
58. Weinberg, C.R. Can we do better? Alternative designs in epidemiology. Seminar jointly sponsored by the Center for Environmental Health and Susceptibility (CEHS) and the UNC Department of Biostatistics, Chapel Hill, NC, October 15, 2003.
59. Weinberg, C.R. Using genotype data from case-parent trios to assess linkage disequilibrium with a quantitative trait. UCLA Department of Genetics, March 1, 2004.
60. Weinberg, C.R. Using case-parent trios to study gene-by-environment interaction. Lecture for Advanced methods in perinatal and pediatric epidemiology. UNC Department of Epidemiology, spring 2004.
61. Weinberg, C.R. Outcome-dependent designs for family studies of quantitative and qualitative traits. Joint Statistics Meeting, Toronto, Canada, August 2004.
62. Weinberg, C.R. When less is more: epidemiologic designs where data are intentionally missing. February, 2005, AAAS, Washington, D.C.
63. Weinberg, C.R. Statistical methods for studying genetic contributions to risk of birth defects. Eastern North American Regional meeting of the Biometrics Society, March, 2005.